

Material Test Report

Heat Code: HHS

An Ameri-Forge Group Company 13770 Industrial Rd. Houston, TX 77015

ISO 9001:2000 Certified

Sales: (713) 868-4421 Fax: (713) 455-8366

Qty Shipped:

Line: 16

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS

Item Code: 0603200100-0021F

PO: 8379

ALAMEDAS 66-0

Item Desc: FLG 02.00 0600 BL RF

54940 TULTITLAN, EDO, MEX

Supplier: CMC Supplier Heat: 3013638

Sales Order: 75369

Spec: ASTM A105/A105M-(10)/ASME SA 105/SA 105M-(08a) Section II Part A - Normalized

Elen	ent (%wt)	Ladle	Product	EPCR	A CAS#	Elem	ent	(%wt)	Ladle	Product	EPCR4	CAS#
С	Carbon	0.23				Ni	Nicke:	1	0.08		✓	7440-02-0
Mn	Manganese	1.06		✓	7439-96-5	Cr	Chrom:	ium	0.12		✓	7440-47-3
P	Phosphorous	0.022				Mo	Molybo	denum	0.019			
S	Sulphur	0.025				v	Vanad:	ium	0.002			
Si	Silicon	0.24				Cb	Columb	bium	0.003			
Cu	Copper	0.22		✓	7440-50-8	C.E.			0.45			
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Mechanical Testi	ng	Heat Treat				
Test Lab	AFG	Norm. Temp. (F)	1675			
Test Bar Size	Test Piece	Norm. (Hrs)	4.0			
HBW	170 - 170	Norm. Cooling Type	AIR			
Elg (%)	26.0	Norm. Location	AFG			
RA (%)	46.0		:			
Tensile Specimen Size (in)	.246	Other				
Tensile (ksi)	85.6	MILL	CMC-TEXAS			
Yield (ksi)	50.9	MHC	3013638			
Gauge Length	1	Country of Origin	USA			
		EF	Y			
		:				

Product compliant with NACE MR0175, latest edition and dimensions to ANSI B16.5

No Weld repair performed. Chemical Analysis results shown are actual. Forgings are capable of passing hydrostatic test compatible with the appropriate rating. Elongation taken from a round specimen. All material supplied under this order is certified to be free of mercury contamination and no mercury bearing equipment was used in manufacturing, fabrication or testing. Yield strength was determined using the 0.2% offset method. No welding performed.

EPCRA Supplier Notification: This product may contain one or more toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1986) and 40 C.F.R. Part 372. Potentially reportable chemicals are indicated with a checkmark in the "EPCRA" column and a Chemical Abstract Services (CAS) registry number is provided for each such chemical in addition to the percent by weight of the chemical present in this product. It is your responsibility alone to determine whether your facility is required to submit a Toxic Release Inventory Report under EPCRA Section 313.

Certification No.:

184951

Certification Date:

6/24/2010

This report is issued in compliance with the requirements of EN10204 3.1 / ISO 10474 3.1.b

Nicholas Tepovich - Metallurgic Lab Manager

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